Dell™ 2208WFP Flat Panel Monitor User's Guide

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Notes, Notices, and Cautions

NOTE: A NOTE indicates important information that helps you make better use of your computer.

NOTICE: A NOTICE indicates either potential damage to hardware or loss of data and tells you how to avoid the problem.

CAUTION: A CAUTION indicates a potential for property damage, personal injury, or death.

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Model 2208WFP

August 2007 Rev. A00

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About Your Monitor

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Product Features

The **2208WFP** flat panel display has an active matrix, thin-film transistor (TFT), liquid crystal display (LCD). The monitor features include:

■ 22-inch (573.6 mm) viewable area display.

■ 1680 x 1050 resolution, plus full-screen support for lower resolutions.

■ Wide viewing angle to allow viewing from a sitting or standing position, or moving side-to-side.

■ Tilt, swivel, vertical extension and rotate adjustment capabilities.

■ Removable pedestal and VESA 100 mm mounting holes for flexible mounting solutions.

■ Plug and play capability if supported by your system.

■ On-Screen Display (OSD) adjustments for ease of set-up and screen optimization.

■ Software and documentation CD includes an information file (INF), Image color Matching File (ICM), and product documentation.

■ Energy Saver feature for Energy Star compliance.

■ Security lock slot.

Identifying Parts and Features

Front View

Front View

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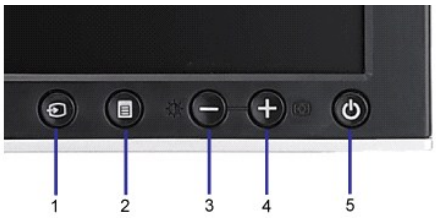
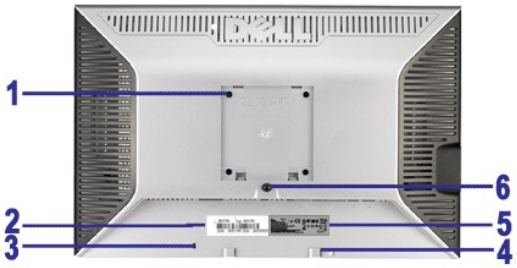


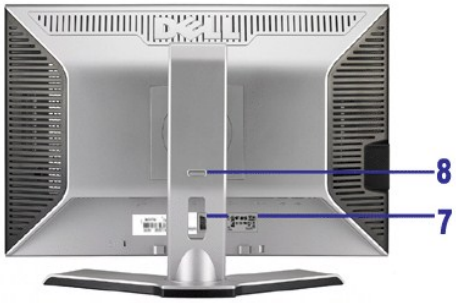
Front panel controls

Label	Description
1	Input Source select
2	OSD Menu/Select button
3	Brightness & Contrast/Down (-) button
4	Auto-adjust/Up (+) button
5	Power button (with power light indicator)

Back View



Back view



Back View with monitor stand

Label		Description
1	VESA mounting holes (100mm) (Behind attached base plate)	Use to mount the monitor.
2	Barcode serial number label	Refer to this lable if you need to contact Dell for technical support.
3	Security lock slot	Use a security lock with the slot to help secure your monitor.
4	Dell Soundbar mounting brackets	Attach the optional Dell Soundbar.
5	Regulatory rating label	Lists the regulatory approvals.
6	Stand removeal button	Press to release the stand.
7	Cable management hole	Help organize cables by placing them through the hole.
8	Lock down/release button	Push the monitor down, press the button to unlock the monitor, and then lift the monitor to the desired height.

Side View

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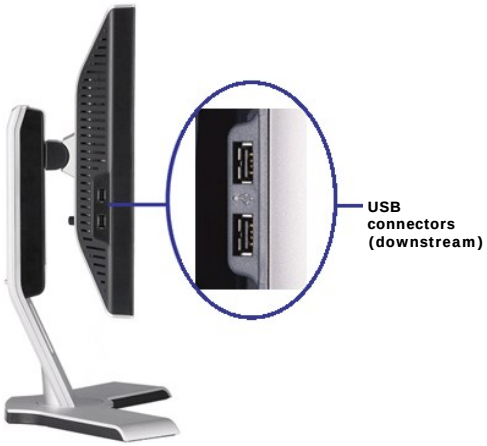
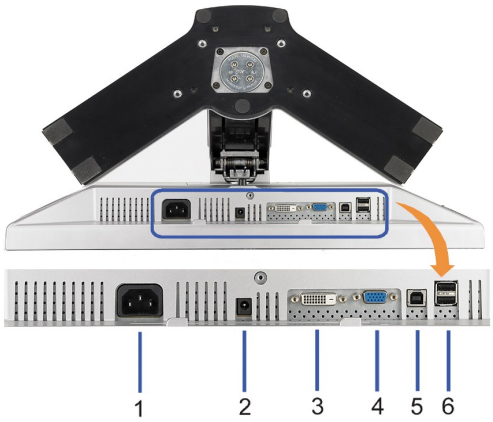


Left view

Right view

Bottom View



Label	Description
1	AC power cord connector.
2	DC power connector for Dell Soundbar.
3	DVI connector
4	VGA connector
5	USB upstream port
6	USB connector port

Monitor Specifications

The following sections give you information about the various power management modes and pin assignments for various connectors for your monitor.

Power Management Modes

If you have VESA's DPM™ compliance display card or software installed in your PC, the monitor can automatically reduce its power consumption when not in use. *Mode**. If the computer detects input from keyboard, mouse, or other input devices, the monitor automatically resumes functioning. The following table shows th of this automatic power saving feature:

VESA Modes	Horizontal Sync	Vertical Sync	Video	Power Indicator	Power Consumption

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Normal operation (with Dell Soundbar and USB active)	Active	Active	Active	Green	75 W (maximum)
Normal operation	Active	Active	Active	Green	45 W (typical)
Active-off mode	Inactive	Inactive	Blanked	Amber	Less than 2 W
Switch off	-	-	-	Off	Less than 1 W

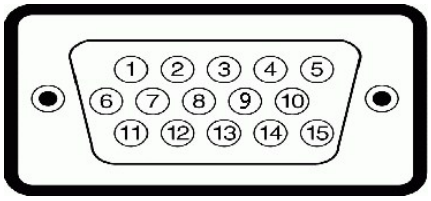
The OSD will only function in the *normal operation* mode. When the **menu** or **plus** buttons are pressed in Active-off mode, one of the following messages will be di
Analog Input In Power Save Mode. Press Computer Power Button or Any Key on Keyboard or Move Mouse
OR
Digital Input In Power Save Mode. Press Computer Power Button or Any Key on Keyboard or Move Mouse
Activate the computer and the monitor to gain access to the OSD.

NOTE: This monitor is **ENERGY STAR**®-compliant as well as TCO '99/TCO '03 power management compatible.

* Zero power consumption in OFF mode can only be achieved by disconnecting the main cable from the monitor.

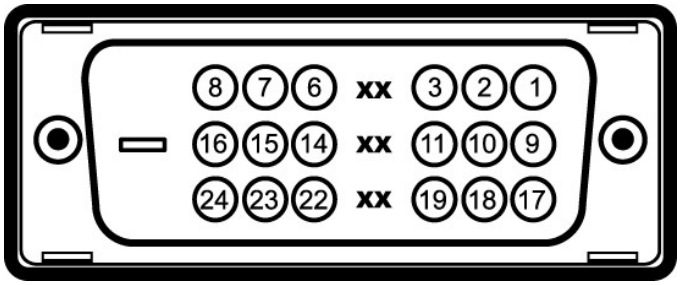
Pin Assignments

VGA Connector



Pin Number	15-pin Side of the Connected Signal Cable
1	Video-Red
2	Video-Green
3	Video-Blue
4	GND
5	Self-test
6	GND-R
7	GND-G
8	GND-B
9	Computer 5V
10	GND-sync
11	GND
12	DDC data
13	H-sync
14	V-sync
15	DDC clock

DVI Connector



Pin Number	24-pin Side of the Connected Signal Cable
1	T.M.D.S. Data 2-
2	T.M.D.S. Data 2+
3	T.M.D.S. Data 2 Shield
4	No connector
5	No connector

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6	DDC Clock
7	DDC Data
8	No connector
9	T.M.D.S. Data 1-
10	T.M.D.S. Data 1+
11	T.M.D.S. Data 1 Shield
12	No connector
13	No connector
14	+5V power
15	Self test
16	Hot Plug Detect
17	T.M.D.S. Data 0-
18	T.M.D.S. Data 0 Shield
19	T.M.D.S. Data
20	No connector
21	No connector
22	T.M.D.S.Clock Shield
23	T.M.D.S. Clock+
24	T.M.D.S. Clock-

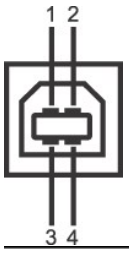
Universal Serial Bus (USB) Interface

This section gives you information about the USB ports that are available on the left side of your monitor.

NOTE: This monitor supports High-Speed Certified USB 2.0 interface

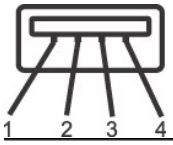
Transfer speed	Data Rate	Power Consumption
High speed	480 Mbps	2.5W (Max., each port)
Full speed	12 Mbps	2.5W (Max., each port)
Low speed	1.5 Mbps	2.5W (Max., each port)

USB Upstream Connector



Pin Number	4-pin Side of the connector
1	DMU
2	VCC
3	DPU
4	GND

USB Downstream Connector



Pin Number	4-Pin Side of the Signal Cable
1	VCC
2	DMD
3	DPD
4	GND

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USB Ports

- 1 upstream - rear
- 4 downstream - 2 on rear; 2 on left side

NOTE: USB 2.0 functionality requires a USB 2.0-capable computer

NOTE: The monitor's USB interface works only when the monitor is on or in power save mode. If you turn off the monitor and then turn it on, the attached seconds to resume normal functionality.

Plug and Play Capability

You can install the monitor in any Plug and Play-compatible system. The monitor automatically provides the computer system with its Extended Display Identificat Channel (DDC) protocols so the system can configure itself and optimize the monitor settings. Most monitor installations are automatic; you can select different s information about changing the monitor settings, see Operating the Monitor.

Flat Panel Specifications

Screen type	Active matrix - TFT LCD
Screen dimensions	22 inches (22-inch viewable image size)
Preset display area:	
Horizontal	473.76 mm (18.7 inches)
Vertical	296.1 mm (11.7 inches)
Pixel pitch	0.282 mm
Viewing angle	160° (vertical) typ, 160° (horizontal) typ
Luminance output	300 CD/m ²(typ)
Contrast ratio	1000 to 1 (typ)
Faceplate coating	Antiglare with hard-coating 3H
Backlight	CCFL (4) edgelight system
Response Time	5ms typical

Resolution Specifications

Horizontal scan range	30 kHz to 83 kHz
Vertical scan range	56 Hz to 76 Hz
Optimal preset resolution	1680 x 1050 at 60 Hz
Highest preset resolution	1680 x 1050 at 75 Hz

Video Supported Modes

Video display capabilities (DVI playback)	480i/480p/576i/576p/720p/1080i/1080p (Support HDCP)

Preset Display Modes

Display Mode	Horizontal Frequency (kHz)	Vertical Frequency (Hz)	Pixel Clock (MHz)	Sync Polarity (Horizontal/Vertical)
VESA, 720 x 400	31.5	70.0	28.3	-/+
VESA, 640 x 480	31.5	60.0	25.2	-/-
VESA, 640 x 480	37.5	75.0	31.5	-/-
VESA, 800 x 600	37.9	60.0	40.0	+/+
VESA, 800 x 600	46.9	75.0	49.5	+/+
VESA, 1024 x 768	48.4	60.0	65.0	-/-
VESA, 1024 x 768	60.0	75.0	78.8	+/+

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VESA, 1152 x 864	67.5	75.0	108.0	+/+
VESA, 1280 x 1024	64.0	60.0	135.0	+/+
VESA, 1280 x 1024	80.0	75.0	135.0	+/+
VESA, 1680 x 1050	65.2	60.0	146.3	-/+
VESA, 1680 x 1050	64.6	60.0	119.0	+/-

Electrical Specifications

Video input signals	Analog RGB, 0.7 Volts +/-5%, positive polarity at 75 ohm input impedance Digital DVI-D TMDS, 600mV for each differential line, positive polarity at 50 ohm input impedance
Synchronization input signals	Separate horizontal and vertical synchronizations, polarity-free TTL level, SOG (Composite SYNC on green)
AC input voltage/frequency/current	100 to 240 VAC / 50 or 60 Hz ± 3 Hz / 2.0A (Max.)
Inrush current	120V:42A (Max.) 240V:80A (Max.)

Physical Characteristics

Connector type	15-pin D-subminiature, blue connector; DVI-D, white connector
Signal cable type	Digital: Detachable, DVI-D, Solid pins, shipped detached from the monitor Analog: Detachable, D-Sub, 15pins, shipped attached to the monitor
Dimensions (with stand)	
Height (Compressed)	14.18 inches (360.24 mm)
Height (Extended)	18.12 inches (460.24 mm)
Width	20.13 inches (511.41 mm)
Depth	5.45 inches (138.50 mm)
Dimensions (without stand)	
Height	13.19 inches (334.94 mm)
Width	20.13 inches (511.41 mm)
Depth	2.56 inches (65.00 mm)
Stand dimensions	
Height (Compressed)	12.58 inches (319.53 mm)
Height (Extended)	14.24 inches (361.18 mm)
Width	15.96 inches (405.30 mm)
Depth	7.73 inches (196.50 mm)
Weight	
Weight with packaging	18.78 lbs (8.53 kg)
Weight with stand assembly and cables	14.87 lbs (6.75 kg)
Weight without stand assembly (For wall mount or VESA mount considerations - no cables)	10.88 lbs (4.94 kg)
Weight of stand assembly	3.99 lbs (1.81 kg)

Environmental Characteristics

Temperature	
Operating	5° to 35°C (41° to 95°F)
Non-operating	Storage: -20° to 60°C (-4° to 140°F) Shipping: -20° to 60°C(-4° to 140°F)
Humidity	
Operating	10% to 80% (non-condensing)

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Non-operating	Storage: 5% to 90% (non-condensing) Shipping: 5% to 90%(non-condensing)
Altitude	
Operating	3,657.6m (12,000 ft) max
Non-operating	12,192 m (40,000 ft) max
Thermal dissipation	256.08 BTU/hour (maximum) 153.6 BTU/hour (typical)

Maintenance Guidelines

Cleaning Your Monitor

CAUTION: Read and follow the safety instructions before cleaning the monitor.

CAUTION: Before cleaning the monitor, unplug the monitor power cable from the electrical outlet.

For best practices, follow the instructions in the list below while unpacking, cleaning, or handling your monitor:

- To clean your antistatic screen, lightly dampen a soft, clean cloth with water. If possible, use a special screen-cleaning tissue or solution suitable for the antistatic coating. Do not use benzene, thinner, ammonia, abrasive cleaners, or compressed air.
- Use a lightly-dampened, warm cloth to clean the monitor. Avoid using detergent of any kind as some detergents leave a milky film on the monitor.
- If you notice white powder when you unpack your monitor, wipe it off with a cloth.
- Handle your monitor with care as darker-colored monitor may scratch and show white scuff marks more than lighter-colored monitor.
- To help maintain the best image quality on your monitor, use a dynamically changing screen saver and turn off your monitor when not in use.

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Appendix

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- Safety Instructions
- FCC Notice (U.S. Only) and Other Regulatory Information
- Contacting Dell

CAUTION: Safety Instructions

CAUTION: Use of controls, adjustments, or procedures other than those specified in this documentation may result in exposure to shock, electrical hazards, and/or mechanical hazards.

For information on safety instructions, see the *Product Information Guide*.

FCC Notices (U.S. Only) and Other Regulatory Information

For FCC notices and other regulatory information, see the regulatory compliance website located at **www.dell.com\regulatory_compliance**.

Contacting Dell

For customers in the United States, call 800-WWW-DELL (800-999-3355).

NOTE: If you do not have an active Internet connection, you can find contact information on your purchase invoice, packing slip, bill, or Dell product catalo

Dell provides several online and telephone-based support and service options. Availability varies by country and product, and some services may not be available in your area. To contact Dell for sales, technical support, or customer service issues:

1. Visit **support.dell.com**.
2. Verify your country or region in the **Choose A Country/Region** drop-down menu at the bottom of the page.
3. Click **Contact Us** on the left side of the page.
4. Select the appropriate service or support link based on your need.
5. Choose the method of contacting Dell that is convenient for you.

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Setting Up Your Monitor

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If you have a Dell™ desktop or a Dell™ portable computer with internet access

1. Go to **http://support.dell.com,** enter your service tag, and download the latest driver for your graphics card.

2. After installing the drivers for your Graphics Adapter, attempt to set the resolution to **1680 x 1050** again.

NOTE: If you are unable to set the resolution to 1680 x 1050, please contact Dell™ to inquire about a Graphics Adapter that supports these resolutions.

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Setting Up Your Monitor

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If you have non Dell™ desktop, portable computer, or graphic card

1. Right-click on the desktop and click **Properties**.

2. Select the **Settings** tab.

3. Select **Advanced**.

4. Identify your graphics controller supplier from the description at the top of the window (e.g. NVIDIA, ATI, Intel etc.).

5. Please refer to the graphic card provider website for updated driver.

6. After installing the drivers for your Graphics Adapter, attempt to set the resolution to **1680 x 1050** again.

NOTE: If you are unable to set the resolution to 1680 x 1050 , please contact the manufacturer of your computer or consider purchasing a graphics adapter that will support the video resolution of 1680 x 1050.

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Operating the Monitor

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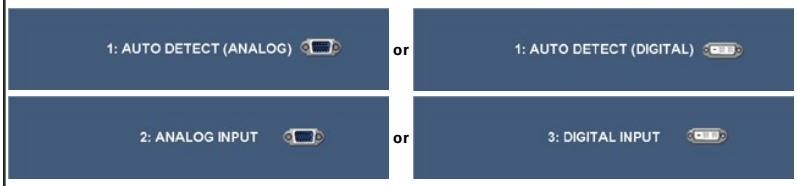
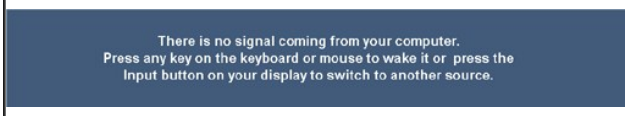
- Using the Front Panel Controls
- Using the On-Screen Display (OSD) Menu
- Setting the Optimal Resolution
- Using the Dell Soundbar (Optional)
- Using the Tilt, Swivel, and Vertical Extension
- Rotating the Monitor
- Adjusting the Rotation Display Settings of Your System

Using the Front Panel

Use the control buttons on the front of the monitor to adjust the characteristics of the image being displayed. As you use these buttons to adjust the controls, an OSD shows the numeric values of the characteristics as they change.

Front panel Button		Description
A	**Input Source Select**	Use Input Source Select button to select between eight different video signals that may be connected to your monitor. ▪ VGA input ▪ DVI-D input If both VGA and DVI cables are connected to one PC, this monitor will display an image automatically just as long as a video signal is present in either VGA or DVI outputs. When connecting one display to two PCs, if using screen savers, best to set both to the exact times. Whichever mouse is moved first will activate that video input first. As you cycle through the inputs you will see the following messages to indicate currently selected input source. It may take 1 or 2 seconds for the image to appear.  If either VGA or DVI-D input is selected and both VGA and DVI-D cables are not connected, a floating dialog box as shown below appears. If either S-Video or Composite input is selected and both cables are not connected or the video source is turned off, the screen does not display an image. If any button is pressed (except power button), the monitor displays the following message: 
B	**OSD Menu / Select**	Use the MENU button to launch the on-screen display (OSD) and select the OSD Menu.

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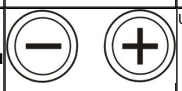
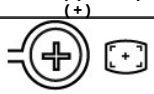
C	**Brightness/Contrast Hot Key**	Use this button for direct access to the "Brightness" and "Contrast" control menu.
C and D	 **Down (-) and Up (+)**	Use these buttons to navigate and adjust the slider-bar (decrease/increase ranges) controls in the OSD.
D	 **Auto Adjust**	Use this button to activate automatic setup and adjust menu. The following dialog appears on a black screen as the monitor self-adjusts to the current input: Auto Adjustment allows the monitor to self-adjust to the incoming video signal. After using Auto Adjustment, you can further tune your monitor by using the Pixel Clock (Coarse) and Phase (Fine) controls under DISPLAY SETTINGS. **NOTE:** Auto Adjust does not occur if you press the button while there are no active video input signals or attached cables.
E	**Power button (with power light indicator)**	Use the Power button to turn the monitor on and off. The green LED indicates the monitor is on and fully functional. An amber LED indicates DPMS power save mode.

Using the On-Screen Display (OSD) Menu

Accessing the Menu System

NOTE: If you change the settings and then either proceed to another menu or exit the OSD menu, the monitor automatically saves those changes. The changes are also saved if you change the settings and then wait for the OSD menu to disappear.

1. Push the MENU button to launch the OSD menu and display the main menu.

Main Menu for Analog (VGA) Input

or

Main Menu for non Analog (non VGA) Input

NOTE: AUTO ADJUST is only available when you are using the analog (VGA) connector.

2. Push the ⊖ and ⊕ buttons to move between the setting options. As you move from one icon to another, the option name is highlighted. See the following table for a complete list of all the options available for the monitor.
3. Push the MENU button once to activate the highlighted option.
4. Push the ⊖ and ⊕ buttons to select the desired parameter.
5. Push ⊡ to enter the slide bar and then use the ⊖ or ⊕ button, according to the indicators on the menu, to make your changes.
6. Select the "back" option to return to the main menu or "exit" to exit the OSD menu.

Icon	Menu and Submenus	Description
	EXIT	Select to exit the main menu.
	BRIGHTNESS & CONTRAST	Use this menu to activate Brightness/Contrast adjustment.

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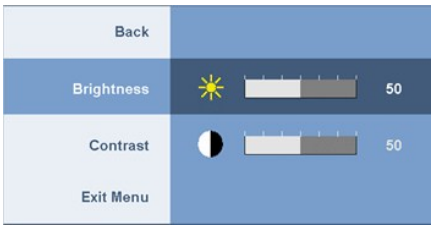

Back	Push to go back to the main menu.
Brightness	Brightness adjusts the luminance of the backlight. Push the button to increase brightness and push the button to decrease brightness (min 0 ~ max 100).
Contrast	Adjust Brightness first, and then adjust Contrast only if further adjustment is necessary. Push the button to increase contrast and push the button to decrease contrast (min 0 ~ max 100). The Contrast function adjusts the degree of difference between darkness and lightness on the monitor screen.
Exit Menu	Push to exit the OSD main menu.

AUTO ADJUST	Even though your computer recognizes your monitor on startup, the Auto Adjustment function optimizes the display settings for use with your particular setup. **NOTE:** In most cases, Auto Adjust produces the best image for your configuration. **NOTE:** AUTO ADJUST option is only available when you are using the analog (VGA) connector.

INPUT SOURCE	Use the INPUT SOURCE menu to select between different video signals that may be connected to your monitor.
Back	Push to go back to the main menu.
VGA	Select VGA input when you are using the analog (VGA) connector. Push to select the VGA input source.
DVI-D	Select DVI-D input when you are using the Digital (DVI) connector. Push to select the DVI input source.
Scan for Source	Push to scan for available input signals.
Exit Menu	Push to exit the OSD main menu.

PRESET SETTING	Use the Preset Modes to adjust the color setting mode and color temperature. There are different color setting sub-menus for VGA/DVI-D and Video input.

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	Preset setting submenu	**Preset setting submenu for VGA input** **Preset setting submenu for DVI-D input**
	Back	Push to go back to the main menu.
	Input Color Format	To achieve the different color domain for PC RGB and HD YPbPr (HD YPbPr is suitable for HD video playback over DVI. PC RGB is suitable for normal PC graphics display over DVI).
	Gamma	To achieve the different color mode for PC and Mac.
	Color Setting mode	You can choose between a Graphics and a Video mode. If your computer is connected to your monitor, choose Graphics. If a DVD, STB, or VCR is connected to your monitor, choose Video.
	Color Presets (VGA/DVI-D Input)	To achieve the different color domain for PC RGB and HD YPbPr (HD YPbPr is suitable for HD video playback over DVI. PC RGB is suitable for normal PC graphics display over DVI).
	Desktop Mode	Mode suitable for desktop applications.
	Multimedia Mode	Mode for multimedia applications (example, video playback).
	Game Mode	Mode suitable for game applications.
	sRGB Mode	Mode to emulate 72% NTSC color.
	Warm Mode	Warm mode is selected to obtain a redder tint. This color setting is typically used for color-intensive applications (photograph image editing, multimedia, movies, etc.).
	Cool MOde	Cool mode is selected to obtain a bluish tint. This color setting is typically used for text based applications (spreadsheets, programming, text editors, etc.).
	Custom (R,G,B) Mode	Use the or button to increase or decrease each of the three colors (R, G, B) independently, in single-digit increments, from 0 tc 100.
	Presets Mode (Video Input)	
	Movie Mode	Mode suitable for movie playback.
	Game Mode	Mode suitable for game applications.
	Sports Mode	Mode suitable for sports scenes.

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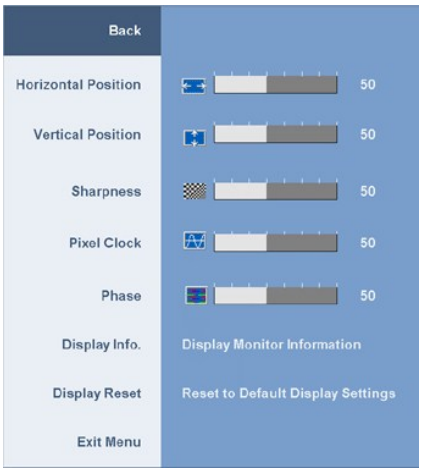
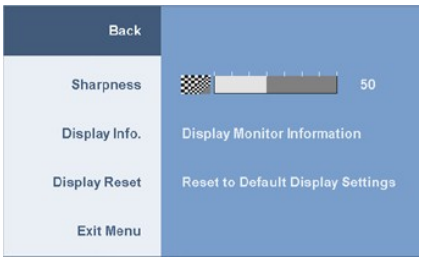
	Nature Mode	Mode suitable for nature scenes.
	Hue	User Preset: Use the plus and minus buttons to increase or decrease each of the three colors (R, G, B) independently, in single digit increments, from 0 to 100. ⊖ makes video image shade into greenish ⊕ makes video image shade into purplish **NOTE:** Hue adjustment only available for video input.
	Saturation	This feature can make color shift of video image to green or purple. This is used to adjust for desired flesh tone color. Use - or + to adjust the hue from '0' to '100'. ⊖ makes video image looks more monochrome ⊕ makes video image looks more colorful **NOTE:** Saturation adjustment only available for video input.
	Exit Menu	Push ⊟ to exit the OSD main menu.
	DISPLAY SETTINGS	
	Display Setting submenu	**Display Setting submenu for VGA input**  **Display Setting submenu for DVI-D input** 
	Back	Push ⊟ to go back to the main menu.
	Horizontal Position	Use the ⊖ and ⊕ buttons to adjust image left and right. Minimum is '0' (-). Maximum is '100' (+). **NOTE:** When using DVI source, the Horizontal Position setting is not available.
	Vertical Position	Use the ⊖ and ⊕ buttons to adjust image up and down. Minimum is '0' (-). Maximum is '100' (+). **NOTE:** When using DVI source, the Vertical Position setting is not available.
	Sharpness	This feature can make the image look sharper or softer. Use ⊖ and ⊕ buttons to adjust the sharpness from '0' to '100'.
	Pixel Clock	The Pixel Clock and Phase adjustments allow you to adjust your monitor to your preference. These settings are accessed through the main OSD menu, by selecting 'Display Settings'. Use the ⊖ and ⊕ buttons to adjust for best image quality.
	Phase	If satisfactory results are not obtained using the Phase adjustment, use the Pixel Clock (coarse) adjustment and then use Phase (fine), again. **NOTE:** Pixel Clock and Phase Adjustments are only available for "VGA" input.
	Display Info	All the settings related to this monitor.
	Display Reset	Reset the image to the original factory setting.
	Exit Menu	Push ⊟ to exit the OSD main menu.
	OTHER SETTINGS	

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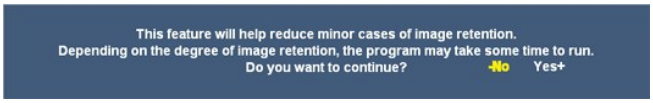
	Other Setting submenu	
	Back	Push to go back to the main menu.
	Language	Language option to set the OSD display to one of five languages (English, Espanol, Francais, Deutsch, or Japanese).
	Menu Transparency	This function is used to adjust the OSD background from opaque to transparent.
	Menu Timer	OSD Hold Time: Sets the length of time the OSD will remain active after the last time you pressed a button. Use the and buttons to adjust the slider in 1 second increments, from 5 to 60 seconds.
	Menu Lock	Controls user access to adjustments. When 'Lock' is selected, no user adjustments are allowed. All buttons are locked except button. **NOTE:** When the OSD is locked, pressing the menu button will take the user directly to the OSD settings menu, with 'OSD Lock' pre-selected on entry. Press and hold button for 15 seconds to unlock and allow user access to all applicable settings.
	Menu Rotation	Rotates the OSD by 90 degrees counter-clockwise. Your can adjust the menu according to your Display Rotation.
	Audio Options	To turn on or off audio power during power save mode. Default is "Enable". Select Disable to disable this feature. **Yes** — Turn off audio power during power save mode. **No** — Turn on audio power during power save mode.
	DDC/CI	DDC/CI (Display Data Channel/Command Interface) allows your monitor parameters (brightness, color balance etc) to be adjustable via software on your PC. You can disable this feature by selecting "Disable". Enable this feature for best user experience and optimum performance of your monitor.
	LCD Conditioning	If an image appears to be stuck on the monitor, select **LCD Conditioning** to help eliminate any image retention. Using the LCD Conditioning feature may take several hours. Severe cases of image retention are known as burn-in, the LCD Conditioning feature does not remove burn-in.  **NOTE:** Use LCD Conditioning only when you experience a problem with image retention.
	Factory Reset	Reset all OSD settings to the factory preset values.

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	Exit Menu	Push to exit the OSD main menu.

OSD Warning Messagess

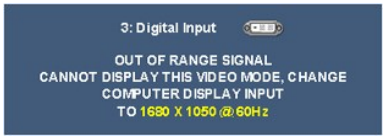
One of the following warning messages may appear on the screen indicating that the monitor is out of synchronization.

1: Auto Detect (Analog Input)
OUT OF RANGE SIGNAL
CANNOT DISPLAY THIS VIDEO MODE, CHANGE
COMPUTER DISPLAY INPUT
TO 1680 X 1050 @ 60Hz

or

1: Auto Detect (Digital Input)
OUT OF RANGE SIGNAL
CANNOT DISPLAY THIS VIDEO MODE, CHANGE
COMPUTER DISPLAY INPUT
TO 1680 X 1050 @ 60Hz

or



This means that the monitor cannot synchronize with the signal that it is receiving from the computer. See Monitor Specifications for the Horizontal and Vertical frequency ranges addressable by this monitor. Recommended mode is 1680 X 1050.

You will see the following message before the DDC/CI function is disabled.

When monitor enters Power Save mode, the following message appears :

Activate the computer and wake up the monitor to gain access to the **OSD**

If either VGA or DVI-D input is selected and both VGA and DVI-D cables are not connected, a floating dialog box as shown below appears.

or

See Solving Problems for more information.

Setting the Optimal Resolution

To set the optimal resolution for the monitor:

1. Right-click on the desktop and select **Properties**.
2. Select the **Settings** tab.
3. Set the screen resolution to 1680 x 1050.
4. Click **OK**.

If you do not see 1680 x 1050 as an option, you may need to update your graphics driver. Depending on your computer, complete one of the following procedures:

- If you have a Dell desktop or portable computer:
  - Go to **support.dell.com**, enter your service tag, and download the latest driver for your graphics card.
- If you are using a non-Dell computer (portable or desktop):
  - Go to the support site for your computer and download the latest graphic drivers.
  - Go to your graphics card website and download the latest graphic drivers.

Using the Dell Soundbar (Optional)

The Dell Soundbar is a stereo two channel system adaptable to mount on Dell Flat Panel Displays. The Soundbar has a rotary volume and on/off control to adjust the overall system level, a blue LED for power indication, and two audio headset jacks.

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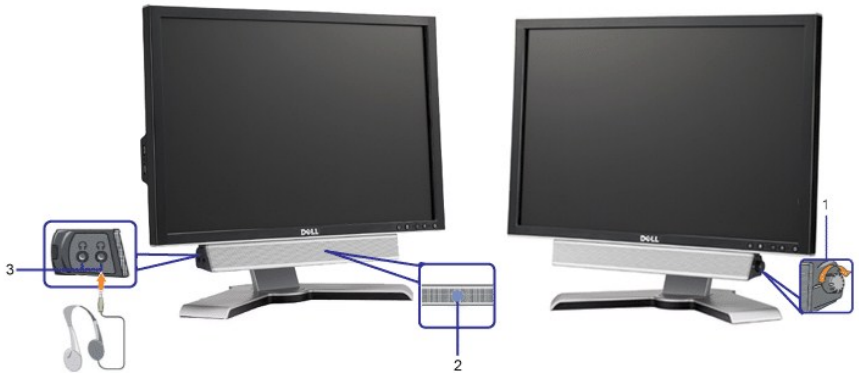
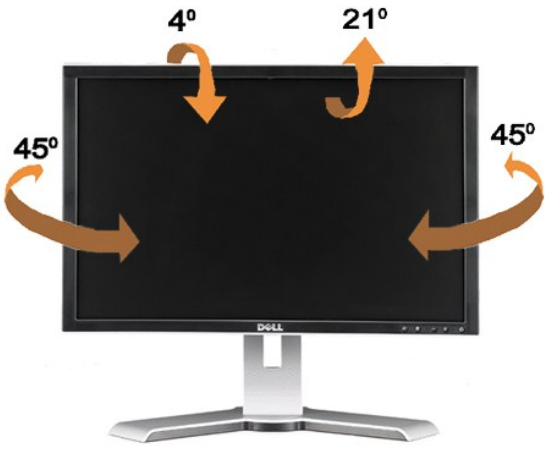


1. Power/volume control
2. Power indicator
3. Headphone connectors

Using the Tilt, Swivel, and Vertical Extension

Tilt/Swivel

With the built-in stand, you can tilt and/or swivel the monitor for the most comfortable viewing angle.



NOTE: The stand is attached and extended when the monitor is shipped from the factory.

Vertical Extension

The stand extends vertically up to 100mm. The figures below illustrate how to extend the stand vertically.

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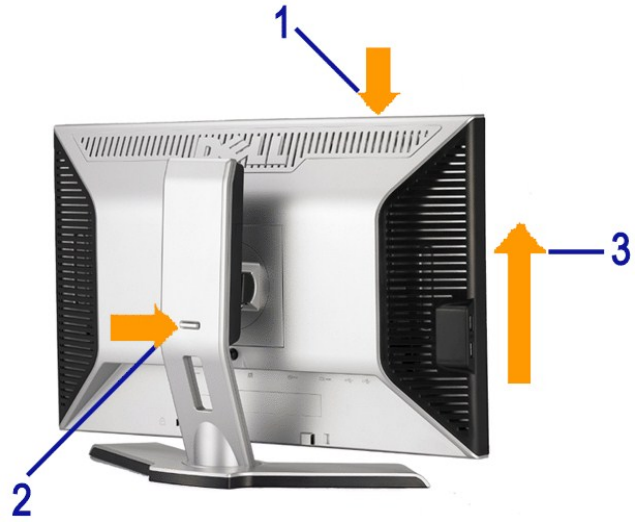
NOTE: If locked in the down position,

1. Push the monitor down.
2. Press the Lock down / release button on the bottom rear of stand to unlock the monitor.
3. Lift the monitor up and extend the stand to the desired height.



NOTICE: Before relocating or moving the monitor to a different location, make sure that the stand is locked down. To lock it down, lower the height of the panel until it clicks and is locked into place.

Rotating the Monitor

Before you rotate the monitor, your monitor should be fully vertically extended (**Vertical Extension**) and fully (**Tilt**) up to avoid hitting the bottom edge of the monitor.

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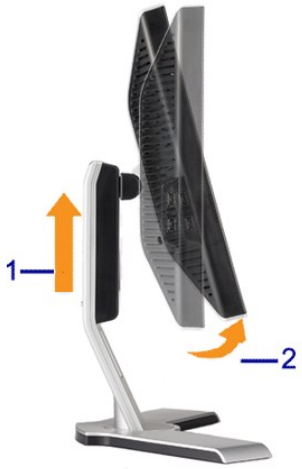

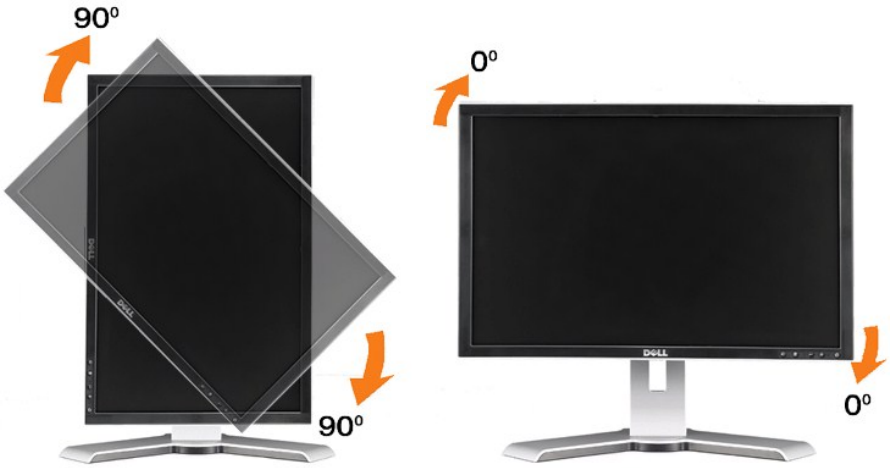

NOTE: To use the Display Rotation function (Landscape versus Portrait view) with your Dell computer, you require an updated graphics driver that is not included with this monitor. To download the graphics driver, go to **support.dell.com** and see the **Download** section for **Video Drivers** for latest driver updates.

NOTE: When in Portrait View Mode, you may experience performance degradation in graphic-intensive applications (3D Gaming etc.)

Adjusting the Rotation Display Settings of Your System

After you have rotated your monitor, you need to complete the procedure below to adjust the Rotation Display Settings of Your System.

NOTE: If you are using the monitor with a non-Dell computer, you need to go the graphics driver website or your computer manufacturer website for information on rotating your operating system.

1. Right-click on the desktop and click **Properties**.
2. Select the **Settings** tab and click **Advanced**.
3. If you have an ATI graphics card, select the **Rotation** tab and set the preferred rotation.
   If you have an nVidia graphics card, click the **nVidia** tab, in the left-hand column select **NVRotate**, and then select the preferred rotation.
   If you have an Intel graphics card, select the **Intel** graphics tab, click **Graphic Properties**, select the **Rotation** tab, and then set the preferred rotation.

NOTE: If you do not see the rotation option or it is not working correctly, go to **support.dell.com** and download the latest driver for your graphics card.

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Setting Up Your Monitor

Dell™ 2208WFP Flat Panel Monitor User's Guide

Important instructions to set the display resolution to 1680 x 1050 (Optimal)

For optimal display performance while using the Microsoft Windows® operating systems, set the display resolution to 1680 x 1050 pixels by performing the following steps:

1. Right-click on the desktop and click **Properties**.

2. Select the **Settings** tab.

3. Move the slider-bar to the right by pressing and holding left-mouse button and adjust the screen resolution to **1680 x 1050.**

4. Click **OK**.

If you do not see **1680 x 1050** as an option, you may need to update your graphics driver. Please choose the scenario below that best describes the computer system you are using, and follow the provided directions:

1: If you have a Dell™ desktop or a Dell™ portable computer with internet access.

2: If you have non Dell™ desktop, portable computer, or graphic card.

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Dell™ 2208WFP Flat Panel Monitor

- User Guide
- Important instructions to set the display resolution to 1680 x 1050(Optimal)

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Model 2208WPF

August 2007 Rev. A00

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Setting Up the Monitor

Dell™2208WFP Flat Panel Monitor User's Guide

- Attaching the Stand
- Connecting your Monitor
- Organizing Your Cables
- Attaching the Soundbar (optional)
- Removing the Stand

Attaching the Stand

NOTE: The stand is detached and extended when the monitor is shipped from the factory.

Place the stand on a flat surface and follow these steps to attach the monitor stand:

1. Fit the groove on the back of the monitor to the two tabs on the upper part of the stand.
2. Lower the monitor so that the monitor mounting area snaps on to or locks on to the stand.

Connecting Your Monitor

CAUTION: Before you begin any of the procedures in this section, follow the Safety Instructions.

To connector your monitor to the computer perform the following steps/instructions:

- Turn off your computer and disconnect the power cable.
- Connect either the white (digital DVI-D) or the blue (analog VGA) display connector cable to the corresponding video port on the back of your computer. Do not use both cables on the same computer. Use both the cables only when they are connected to two different computers with appropriate video systems.

Connecting the White DVI Cable

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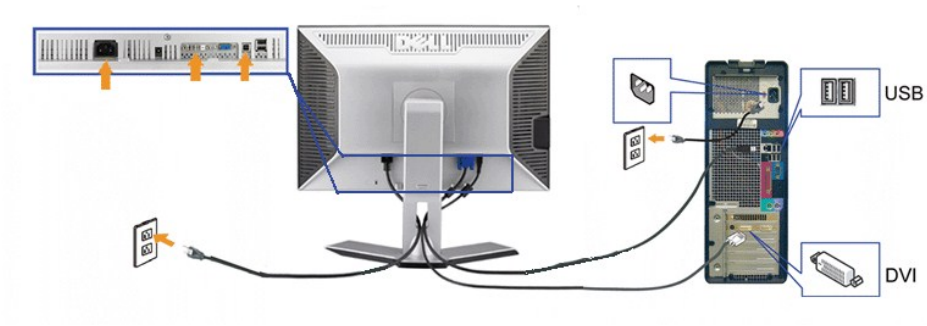
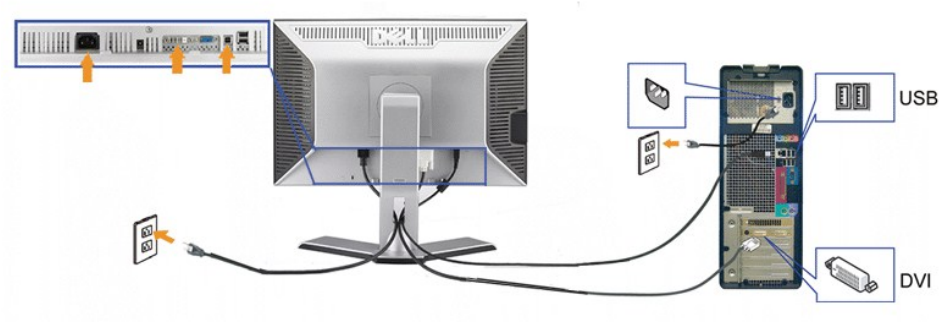


Connecting the Blue VGA Cable



NOTE: The Graphics are used for the purpose of illustration only. Appearance of the computer may vary.

After you have completed connecting the DVI/VGA cable, follow the procedure below to connect the USB cable to the computer and complete your monitor setup:

- Connect the upstream USB port (cable supplied) to an appropriate USB port on your computer .
- Connect USB peripherals to the downstream USB ports (rear or side) on the monitor. (See rear or bottom view for details.)
- Plug the power cables for your computer and monitor into a nearby outlet.
- Turn on the monitor and the computer.
  If your monitor displays an image, installation is complete. If it does not display an image, see Solving Problems.
- Use the cable holder on the monitor stand to organize the cables.

Organizing Your Cables

After attaching all necessary cables to your monitor and computer, (See Connecting Your Monitor for cable attachment,) use the cable management hole to organize all cables as shown above.

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Attaching the Soundbar

NOTICE: Do not use with any device other than Dell Soundbar.

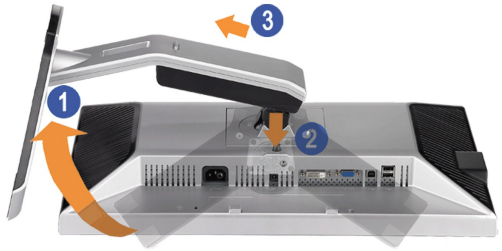
NOTE: Soundbar Power Connector -12V DC output is for optional Soundbar only.

1. Working from the rear of the monitor, attach Soundbar by aligning the two slots with the two tabs along the bottom rear of the monitor.
2. Slide the Soundbar to the left until it snaps into place.
3. Connect the Soundbar with the DC power connector.
4. Insert the mini stereo plug from the rear of the Dell Soundbar into the computer's audio output jack.

Removing the Stand

NOTE: To prevent scratches on the LCD screen while removing the stand, ensure that the monitor is placed on a clean surface.

Complete the following steps to remove the stand:



1. Rotate the stand to allow access to the stand release button.
2. Press and hold the Stand release button.
3. Lift the stand up and away from the monitor .

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Solving Problems

Dell™ 2208WFP Flat Panel Monitor User's Guide

- Monitor Specific Troubleshooting
- Common Problems
- Product Specific Problems
- Universal Serial Bus(USB) Specific Problems
- Dell™ Soundbar Troubleshooting

CAUTION: Before you begin any of the procedures in this section, follow the Safety Instructions.

Troubleshooting the Monitor

Self-Test Feature Check

Your monitor provides a self-test feature that allows you to check whether your monitor is functioning properly. If your monitor and computer are properly connected but the monitor screen remains dark, run the monitor self-test by performing the following steps:

1. Turn off both your computer and the monitor.
2. Unplug the video cable from the back of the computer. To ensure proper Self-Test operation, remove both Digital (white connector) and the Analog (blue connector) cables from the back of computer.
3. Turn on the monitor.

The floating dialog box should appear on-screen (against a black background) if the monitor cannot sense a video signal and is working correctly. While in self-test mode, the power LED remains green. Also, depending upon the selected input, one of the dialogs shown below will continuously scroll through the screen.

4. This box also appears during normal system operation if the video cable becomes disconnected or damaged.
5. Turn off your monitor and reconnect the video cable; then turn on both your computer and the monitor.

If your monitor screen remains blank after you use the previous procedure, check your video controller and computer, because your monitor is functioning properly.

NOTE: Self test feature check is not available for S-Video, Composite, and Component video modes.

Common Problems

The following table contains general information about common monitor problems you might encounter and the possible solutions.

Common Symptoms	What You Experience	Possible Solutions
No Video/ Power LED off	No picture	ı Ensure that the video cable connecting the monitor and the computer is properly connected and secure. ı Verify that the power outlet is functioning properly using any other electrical equipment. ı Ensure that the power button depressed fully.
No Video/ Power LED on	No picture or no brightness	ı Increase brightness & contrast controls via OSD. ı Perform monitor self-test feature check. ı Check for bent or broken pins in the video cable connector.
Poor Focus	Picture is fuzzy, blurry, or ghosting	ı Perform Auto Adjust via OSD. ı Adjust the Phase and Pixel Clock controls via OSD. ı Eliminate video extension cables. ı Reset the monitor to Factory Settings. ı Change the video resolution to the correct aspect ration (16:10).
Shaky/Jittery Video	Wavy picture or fine movement	ı Perform Auto Adjust via OSD. ı Adjust the Phase and Pixel Clock controls via OSD. ı Reset the monitor to Factory Settings. ı Check environmental factors. ı Relocate the monitor and test in another room.
Missing Pixels	LCD screen has spots	ı Cycle power on-off. ı Pixel that is permanently off is a natural defect that can occur in LCD technology.
Stuck-on Pixels	LCD screen has bright spots	ı Cycle power on-off. ı Pixel that is permanently off is a natural defect that can occur in LCD technology.

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Brightness Problems	Picture too dim or too bright	ı Reset the monitor to Factory Settings. ı Auto Adjust via OSD. ı Adjust brightness & contrast controls via OSD.
Geometric Distortion	Screen not centered correctly	ı Reset the monitor to Factory Settings. ı Auto Adjust via OSD. ı Adjust brightness & contrast controls via OSD. **NOTE:** When using '2:DVI-D', the positioning adjustments are not available.
Horizontal/Vertical Lines	Screen has one or more lines	ı Reset the monitor to Factory Settings. ı Perform Auto Adjust via OSD. ı Adjust Phase and Pixel Clock controls via OSD. ı Perform monitor self-test feature check and determine if these lines are also in self-test mode. ı Check for bent or broken pins in the video cable connector. **NOTE:** When using '2:DVI-D', the Pixel Clock and Phase adjustments are not available.
Synchronization Problems	Screen is scrambled or appears torn	ı Reset the monitor to Factory Settings. ı Perform Auto Adjust via OSD. ı Adjust Phase and Pixel Clock controls via OSD. ı Perform monitor self-test feature check to determine if scrambled screen appears in self-test mode. ı Check for bent or broken pins in the video cable connector. ı Restart the computer in the *safe mode*.
Safety Related Issues	Visible signs of smoke or sparks	ı Do not perform any troubleshooting steps. ı Contact Dell immediately.
Intermittent Problems	Monitor malfunctions on & off	ı Ensure that the video cable connecting the monitor to the computer is connected properly and is secure. ı Reset the monitor to Factory Settings. ı Perform monitor self-test feature check to determine if the intermittent problem occurs in self-test mode.
Missing Color	Picture missing color	ı Perform monitor self-test feature check. ı Ensure that the video cable connecting the monitor to the computer is connected properly and is secure. ı Check for bent or broken pins in the video cable connector..
Wrong Color	Picture color not good	ı Change the Color Setting Mode in the Color Settings OSD to Graphics or Video depending to the application. ı Try different Color Preset Settings in Color Settings OSD. Adjust R/G/B value in Color Settings OSD if the Color Management is turned off. ı Change the Input Color Format to PC RGB or YPbPr in the Advance Setting OSD.
Image retention from a static image left on the monitor for a long period of time	Faint shadow from the static image displayed appears on the screen	ı Use the Power Management feature to turn off the monitor at all times when not in use (for more information, see Power Management Modes). ı Alternatively, use a dynamically changing screensaver.

Product Specific Problems

Specific Symptoms	What You Experience	Possible Solutions
Screen image is too small	Image is centered on screen, but does not fill entire viewing area	ı Check the Scaling Ratio setting in Image Setting OSD ı Reset the monitor to Factory Settings.
Cannot adjust the monitor with the buttons on the front panel	OSD does not appear on the screen	ı Turn off the monitor, unplug the power cord, plug back, and then turn on the monitor.
The monitor will not go into power saving mode.	No picture, the LED light is blue. When press "+", "-" or "Menu" key, the message " No S-Video input signal ", " No Composite input signal " or " No Component input signal " appears	ı Move mouse or hit any key on the keyboard or activate the video player, then access the OSD to set Audio to **off** state.
No Input Signal when user controls are pressed	No picture, the LED light is blue. When press **+**, **-** or **Menu** key, the message No S-Video input signal, No Composite input signal, or No Component input signal appears	ı Check the signal source. Ensure the Computer is not in the power saving mode by moving the mouse or pressing any key on the keyboard. ı Check to make sure Video Source to S-Video, Composite or Component is powered and playing video media. ı Check whether the signal cable is plugged in properly. Re-plug the signal cable if necessary. ı Reset the computer or video player.
The picture does not fill the entire screen.	The picture cannot fill the height or width of the screen	ı Due to different video formats (aspect ratio) of DVDs, the monitor may display in full screen.
Input auto switching to another source	Can't select input source	ı Under"Auto Detect"mode if one of the DVI or VGA signal is lost(or cable disconnected)this display will automatically to the other input source where a signal exist.

NOTE: When choosing DVI-D mode, the **Auto Adjust** function is not available.

Universal Serial Bus (USB) Specific Problems

Specific Symptoms	What You Experience	Possible Solutions
USB interface is not working	USB peripherals are not working	ı Check that your monitor is turned ON. ı Reconnect the upstream cable to your computer. ı Reconnect the USB peripherals (downstream connector). ı Switch off and then turn on the monitor again.

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		• Reboot the computer. • Some USB devices like external portable HDD require higher electric current; connect the device directly to the computer system.
High Speed USB 2.0 interface is slow.	High Speed USB 2.0 peripherals working slowly or not working at all	• Check that your computer is USB 2.0-capable. • Some computers have both USB 2.0 and USB 1.1 ports. Ensure that the correct USB port is used. • Reconnect the upstream cable to your computer. • Reconnect the USB peripherals (downstream connector). • Reboot the computer.

Troubleshooting the Dell™ Soundbar

Common Symptoms	What You Experience	Possible Solutions
No Sound	No power to Soundbar - the power indicator is off (built-in DC power supply. i.e. 2208WFP)	• Turn the Power/Volume knob on the Soundbar clockwise to the middle position; check if the power indicator (green LED) on the front of the Soundbar is illuminated. • Ensure that the power cable from the Soundbar is plugged into the monitor. • Ensure that the monitor has power. • If the monitor has no power, see Monitor Specific Troubleshooting for monitor common problem.
No Sound	Soundbar has power - power indicator is on	• Plug the audio line-in cable into the computer's audio out jack. • Set all volume controls to their maximum and ensure that the mute option is not enabled. • Play some audio content on the computer (example, audio CD, or MP3). • Turn the Power/Volume knob on the Soundbar clockwise to a higher volume setting. • Clean and reseat the audio line-in plug. • Test the Soundbar using another audio source (For example: portable CD player, MP3 player).
Distorted Sound	Computer's sound card is used as the audio source	• Clear any obstructions between the Soundbar and the user. • Confirm that the audio line-in plug is completely inserted into the jack of the sound card. • Set all Windows volume controls to their midpoints. • Decrease the volume of the audio application. • Turn the Power/Volume knob on the Soundbar counter-clockwise to a lower volume setting. • Clean and reseat the audio line-in plug. • Troubleshoot the computer's sound card. • Test the Soundbar using another audio source (For example: portable CD player, MP3 player). • Avoid using an audio cable extension or audio jack converter.
Distorted Sound	Other audio source is used	• Clear any obstructions between the Soundbar and the user. • Confirm that the audio line-in plug is completely inserted into the jack of the audio source. • Decrease the volume of the audio source. • Turn the Power/Volume knob on the Soundbar counter-clockwise to a lower volume setting. • Clean and reseat the audio line-in plug.
Unbalanced Sound Output	Sound from only one side of Soundbar	• Clear any obstructions between the Soundbar and the user. • Confirm that the audio line-in plug is completely inserted into the jack of the sound card or audio source. • Set all Windows audio balance controls (L-R) to their midpoints. • Clean and reseat the audio line-in plug. • Troubleshoot the computer's sound card. • Test the Soundbar using another audio source (For example: portable CD player, MP3 player).
Low Volume	Volume is too low	• Clear any obstructions between the Soundbar and the user. • Turn the Power/Volume knob on the Soundbar clockwise to the maximum volume setting. • Set all Windows volume controls to their maximum. • Increase the volume of the audio application. • Test the Soundbar using another audio source (For example: portable CD player, MP3 player).

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